

Author Index

- Abaci, S., U. Tamer, K. Pekmez and A. Yildiz,
Performance of different crystal structures
of PbO₂ on electrochemical degradation of
phenol in aqueous solution 240 (2005) 112
- Abel, E.W., see Zhao, Q. 240 (2005) 441
- Amorisco, A., see Losito, I. 240 (2005) 180
- Attayibat, A., see Bouklah, M. 240 (2005) 341
- Babić-Samardžija, K., K.F. Khaled and N.
Hackerman, Investigation of the inhibiting
action of *O*-, *S*- and *N*-dithiocarbama-
to(1,4,8,11-tetraazacyclotetradecane)-
cobalt(III) complexes on the corrosion of
iron in HClO₄ acid 240 (2005) 327
- Bai-Xing, H., see Qing-Feng, H. 240 (2005) 244
- Basu, S., see Singh, S. 240 (2005) 251
- Batista, W.W., see Costa, C.A.R. 240 (2005) 414
- Belabbes, R., see Hadjadj-Aoul, O. 240 (2005) 131
- Belaidi, A., see Dittrich, T. 240 (2005) 236
- Belkadi, M., see Hadjadj-Aoul, O. 240 (2005) 131
- Benkaddour, M., see Bouklah, M. 240 (2005) 341
- Bi, G., see Rao, Q.- 240 (2005) 28
- Bohne, W., see Dittrich, T. 240 (2005) 236
- Bouklah, M., A. Attayibat, B. Hammouti, A.
Ramdani, S. Radi and M. Benkaddour,
Pyridine-pyrazole compound as inhibitor
for steel in 1M HCl 240 (2005) 341
- Caram, R., see Costa, C.A.R. 240 (2005) 414
- Chae, K.H., see Park, J.Y. 240 (2005) 305
- Chang, W., M. Choi, J. Kim, S. Cho and K.
Whang, Sub-micron scale patterning using
femtosecond laser and self-assembled
monolayers interaction 240 (2005) 296
- Chang, W.-J., see Fang, T.-H. 240 (2005) 312
- Chau-Nan Hong, F., see Wang, L.-J. 240 (2005) 161
- Chen, H.W., see Liao, J.X. 240 (2005) 71
- Chen, J.-M., see Hsieh, C.-T. 240 (2005) 318
- Chen, M., see Guan, F. 240 (2005) 24
- Chitra, R., see Singh, S. 240 (2005) 251
- Cho, S., see Chang, W. 240 (2005) 296
- Choi, D.S., see Park, J.Y. 240 (2005) 305
- Choi, H.-H., J. Park and R.K. Singh, Nanosized
titania encapsulated silica particles using an
aqueous TiCl₄ solution 240 (2005) 7
- Choi, M., see Chang, W. 240 (2005) 296
- Chu, J.H., see Ma, J.H. 240 (2005) 275
- Chunhe, T., see Zhiqiang, F. 240 (2005) 349
- Cobo, A.J.G., see Soares Neto, T.G. 240 (2005) 355
- Colín L., J.A., J.A. Reyes, A. Vázquez and A.
Montoya, Pillar effects in MoS₂ catalysts
supported on Al and Zr pillared clays in a
hydrotreatment reaction. A preliminary study 240 (2005) 48
- Costa, C.A.R., W.W. Batista, C.T. Rios, S.
Milenkovic, M.C. Gonçalves and R. Caram,
Eutectic alloy microstructure: atomic force
microscopy analysis 240 (2005) 414
- Criquelion, J., see Richard, M. 240 (2005) 204
- Cruz, G.M., see Soares Neto, T.G. 240 (2005) 355
- Cêtre, J.C., see Richard, M. 240 (2005) 204
- Dąbrowski, A., see Seledets, O. 240 (2005) 222
- De Barros, M.L., see Richard, M. 240 (2005) 204
- Dittrich, T., H.-J. Muffler, M. Vogel, T.
Guminskaya, A. Ogacho, A. Belaidi, E.
Strub, W. Bohne, J. Röhrich, O. Hilt and
M.C. Lux-Steiner, Passivation of TiO₂ by
ultra-thin Al-oxide 240 (2005) 236
- Fan, X.-, see Rao, Q.- 240 (2005) 28
- Fang, T.-H. and W.-J. Chang, Microthermal
machining using scanning thermal micro-
scopy 240 (2005) 312
- Fouad, O.A., see Uddin, M.N. 240 (2005) 120
- Fu, C.L., see Liao, J.X. 240 (2005) 71
- Fu, Q. and T. Wagner, Determination of growth
modes via spectroscopy: new simple ana-
lytical models 240 (2005) 189
- Fu, Q., see Liao, L. 240 (2005) 175
- Fu, Y.Q., see Qian, H.X. 240 (2005) 140
- Fuess, H., see Öksüzoglu, R.M. 240 (2005) 405
- Fujitani, T., see Nakamura, I. 240 (2005) 77
- Ganesh, V., D. Vijayaraghavan and V. Laksh-
minarayanan, Fine grain growth of nickel
electrodeposit: effect of applied magnetic
field during deposition 240 (2005) 286
- Gonçalves, M.C., see Costa, C.A.R. 240 (2005) 414
- Goud, Y., see Singh, S. 240 (2005) 251
- Guan, F., M. Chen, W. Yang, J. Wang, S. Yong
and Q. Xue, Fabrication of patterned gold
microstructure by selective electroless plat-
ing 240 (2005) 24
- Guermouche, M.H., see Hadjadj-Aoul, O. 240 (2005) 131
- Guminskaya, T., see Dittrich, T. 240 (2005) 236
- Gun'ko, V.M., see Seledets, O. 240 (2005) 222

- Hackerman, N., see Babić-Samardžija, K. 240 (2005) 327
- Hadjadj-Aoul, O., R. Belabbes, M. Belkadi and M.H. Guermouche, Characterization and performances of an Algerian diatomite-based gas chromatography support 240 (2005) 131
- Ham, M.-H., see Moon, T.-H. 240 (2005) 105
- Hamada, H., see Nakamura, I. 240 (2005) 77
- Hamaguchi, M., see Saito, Y. 240 (2005) 381
- Hammouti, B., see Bouklah, M. 240 (2005) 341
- Hilt, O., see Dittrich, T. 240 (2005) 236
- Hsieh, C.-T., J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu, Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles 240 (2005) 318
- Hu, Q.-W., see Li, S. 240 (2005) 63
- Hudec, I., see Krump, H. 240 (2005) 268
- Jaššo, M., see Krump, H. 240 (2005) 268
- Jaziri, S., see Triki, M. 240 (2005) 1
- Jaziri, S., see Triki, M. 240 (2005) 2
- Jean-Charles, R., see Zhiqiang, F. 240 (2005) 349
- Jeong, M.-C., see Moon, T.-H. 240 (2005) 280
- Ji, S.-Q., see Li, S. 240 (2005) 63
- Jian, S., see Qing-Feng, H. 240 (2005) 244
- Jun, L., see Ruijun, W. 240 (2005) 42
- Khaled, K.F., see Babić-Samardžija, K. 240 (2005) 327
- Kim, J., see Chang, W. 240 (2005) 296
- Kim, J.H., T.W. Kim and K.H. Yoo, Interband Stark effects in $\text{In}_{0.5}\text{Ga}_{0.5}\text{As}/\text{In}_{0.5}\text{Al}_{0.5}\text{As}$ coupled step quantum wells 240 (2005) 452
- Kim, J.Y., see Park, J.Y. 240 (2005) 305
- Kim, M.-S., see Moon, T.-H. 240 (2005) 105
- Kim, S.S., see Park, J.Y. 240 (2005) 305
- Kim, T.W., see Kim, J.H. 240 (2005) 452
- Kim, T.W., see Lee, D.U. 240 (2005) 375
- Kodama, R.H., see Singh, S. 240 (2005) 251
- Krump, H., M. Šimor, I. Hudec, M. Jaššo and A.S. Luyt, Adhesion strength study between plasma treated polyester fibres and a rubber matrix 240 (2005) 268
- Öksüzoglu, R.M., G. Miehe and H. Fuess, Kinetic interface roughening and magneto resistance of sputter-deposited $\text{Fe}/\text{Ni}_{75}\text{B}_{25}$ multilayers 240 (2005) 405
- Kuo, R.-R., see Hsieh, C.-T. 240 (2005) 318
- Lakshminarayanan, V., see Ganesh, V. 240 (2005) 286
- Lasagni, A. and F. Mücklich, Study of the multilayer metallic films topography modified by laser interference irradiation 240 (2005) 214
- Le Mogne, T., see Richard, M. 240 (2005) 204
- Leboda, R., see Seledets, O. 240 (2005) 222
- Lee, D.U., T.W. Kim and K.H. Yoo, Dependence of the electronic parameters on the $\text{In}_{0.5}\text{Ga}_{0.5}\text{As}$ quantum well width in modulation-doped $\text{Al}_{0.5}\text{Ga}_{0.5}\text{As}/\text{In}_{0.5}\text{Ga}_{0.5}\text{As}/\text{GaAs}$ strained single quantum wells 240 (2005) 375
- Lee, W., see Moon, T.-H. 240 (2005) 280
- Leng, W.J., see Liao, J.X. 240 (2005) 71
- Li, C.M., see Pan, L.K. 240 (2005) 19
- Li, D.Y., see Li, W. 240 (2005) 388
- Li, H.L., see Shen, C.M. 240 (2005) 34
- Li, J.C., see Liao, L. 240 (2005) 175
- Li, J.F., X.W. Sun, M.B. Yu, G.J. Qi and X.T. Zeng, Nickel induced lateral crystallization behavior of amorphous silicon films 240 (2005) 155
- Li, S., Q.-W. Hu, X.-Y. Zeng and S.-Q. Ji, Effect of carbon content on the microstructure and the cracking susceptibility of Fe-based laser-clad layer 240 (2005) 63
- Li, W. and D.Y. Li, Variations of work function and corrosion behaviors of deformed copper surfaces 240 (2005) 388
- Li, Z., see Wei, G. 240 (2005) 260
- Liao, J.X., L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng, Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium 240 (2005) 71
- Liao, L., D.H. Liu, J.C. Li, C. Liu, Q. Fu and M.S. Ye, Synthesis and Raman analysis of ID-ZnO nanostructure via vapor phase growth 240 (2005) 175
- Lim, G.C., see Qian, H.X. 240 (2005) 140
- Lin, T., see Ma, J.H. 240 (2005) 275
- Lin, T.-S., see Hsieh, C.-T. 240 (2005) 318
- Liu, C., see Liao, L. 240 (2005) 175
- Liu, D.H., see Liao, L. 240 (2005) 175
- Liu, W.M., see Liao, J.X. 240 (2005) 71
- Liu, Y., see Zhao, Q. 240 (2005) 441
- Liu, Z., see Wei, G. 240 (2005) 260
- Losito, I., A. Amorisco, F. Palmisano and P.G. Zambonin, X-ray photoelectron spectroscopy characterization of composite TiO_2 -poly(vinylidene fluoride) films synthesised for applications in pesticide photocatalytic degradation 240 (2005) 180
- Lu, Q.-, see Rao, Q.- 240 (2005) 28
- Lu, X.D., H.M. Wang and Z.R. Zhou, Reciprocating sliding wear behavior of laser-clad small amplitude $\text{Mo}_2\text{Ni}_3\text{Si}/\text{NiSi}$ metal silicide composite coatings 240 (2005) 432
- Lux-Steiner, M.C., see Dittrich, T. 240 (2005) 236
- Luyt, A.S., see Krump, H. 240 (2005) 268
- Ma, J.H., X.J. Meng, J.L. Sun, T. Lin, F.W. Shi, G.S. Wang and J.H. Chu, Effect of excess Pb on crystallinity and ferroelectric properties of PZT(40/60) films on LaNiO_3 coated Si substrates by MOD technique 240 (2005) 275
- Martin, J.M., see Richard, M. 240 (2005) 204
- Mücklich, F., see Lasagni, A. 240 (2005) 214
- Meng, X.J., see Ma, J.H. 240 (2005) 275
- Miehe, G., see Öksüzoglu, R.M. 240 (2005) 405
- Milenkovic, S., see Costa, C.A.R. 240 (2005) 414
- Montoya, A., see Colin L., J.A. 240 (2005) 48
- Moon, T.-H. and J.-M. Myoung, Effects of oxygen flow rate on the properties of

- HfO₂ layers grown by metalorganic molecular beam epitaxy 240 (2005) 197
- Moon, T.-H., M.-C. Jeong, W. Lee and J.-M. Myoung, The fabrication and characterization of ZnO UV detector 240 (2005) 280
- Moon, T.-H., M.-H. Ham, M.-S. Kim, I. Yun and J.-M. Myoung, Growth and characterization of MOMBE grown HfO₂ 240 (2005) 105
- Muffler, H.-J., see Dittrich, T. 240 (2005) 236
- Musiaticowicz, M., see Seledets, O. 240 (2005) 222
- Myoung, J.-M., see Moon, T.-H. 240 (2005) 105
- Myoung, J.-M., see Moon, T.-H. 240 (2005) 197
- Myoung, J.-M., see Moon, T.-H. 240 (2005) 280
- Nagano, M., see Uddin, M.N. 240 (2005) 120
- Nakamura, I., H. Hamada and T. Fujitani, Structure and NO reactivity of Zr-deposited Pd surfaces 240 (2005) 77
- Nakata, S. and H. Okunishi, Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change 240 (2005) 366
- Ngoi, B.K.A., see Qian, H.X. 240 (2005) 140
- Nishizawa, T., see Saito, Y. 240 (2005) 381
- Ogacho, A., see Dittrich, T. 240 (2005) 236
- Okunishi, H., see Nakata, S. 240 (2005) 366
- Palmisano, F., see Losito, I. 240 (2005) 180
- Pan, L.K., C.Q. Sun and C.M. Li, Estimating the extent of surface oxidation by measuring the porosity dependent dielectrics of oxygenated porous silicon 240 (2005) 19
- Park, J., see Choi, H.-H. 240 (2005) 7
- Park, J.Y., J.H. Seo, J.Y. Kim, C.N. Whang, S.S. Kim, D.S. Choi and K.H. Chae, Surface structure of low-covered Cs on Si(0 0 1)-(2×1) system 240 (2005) 305
- Pekmez, K., see Abaci, S. 240 (2005) 112
- Perret-Liaudet, A., see Richard, M. 240 (2005) 204
- Podkościelny, P., see Seledets, O. 240 (2005) 222
- Qi, G.J., see Li, J.F. 240 (2005) 155
- Qian, H.X., W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim, Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam 240 (2005) 140
- Qing-Feng, H., L. Xian-Cai, L. Xian-Dong, H. Bai-Xing, L. Zhi-Jun and S. Jian, Variation in surface fractal of graphite due to the adsorption of polyoxyethylene sorbitan monooleate 240 (2005) 244
- Radi, S., see Bouklah, M. 240 (2005) 341
- Ramdani, A., see Bouklah, M. 240 (2005) 341
- Rao, Q.-G. Bi, Q.-Lu, H.-Wang and X.-Fan, Microstructure evolution of electroless Ni-B film during its depositing process 240 (2005) 28
- Rauwel, G., see Richard, M. 240 (2005) 204
- Refaey, S.A.M., Inhibition of steel pitting corrosion in HCl by some inorganic anions 240 (2005) 396
- Reyes, J.A., see Colin L., J.A. 240 (2005) 48
- Röhrich, J., see Dittrich, T. 240 (2005) 236
- Richard, M., T. Le Mogne, A. Perret-Liaudet, G. Rauwel, J. Criquelion, M.I. De Barros, J.C. Cêtre and J.M. Martin, Detergency of stainless steel surface soiled with human brain homogenate: an XPS study 240 (2005) 204
- Rios, C.T., see Costa, C.A.R. 240 (2005) 414
- Roa, F. and J.D. Way, The effect of air exposure on palladium-copper composite membranes 240 (2005) 85
- Ruijun, W., Q. Yiyu and L. Jun, Interface behavior study of WC92-Co8 coating produced by electrospray deposition 240 (2005) 42
- Šimor, M., see Krump, H. 240 (2005) 268
- Saito, Y., T. Nishizawa and M. Hamaguchi, A study on the reaction between chlorine trifluoride gas and glass-like carbon 240 (2005) 381
- Schirone, L., see Sotgiu, G. 240 (2005) 424
- Seledets, O., V.M. Gun'ko, J. Skubiszewska-Zięba, R. Lebeda, M. Musiatowicz, P. Podkościelny and A. Dąbrowski, Structural and energetic heterogeneities of pyrocarbon/silica gel systems and their adsorption properties 240 (2005) 222
- Seo, J.H., see Park, J.Y. 240 (2005) 305
- Shen, C.M., X.G. Zhang and H.L. Li, Influence of different deposition potentials on morphology and structure of CdSe films 240 (2005) 34
- Shi, F.W., see Ma, J.H. 240 (2005) 275
- Singh, R.K., see Choi, H.-H. 240 (2005) 7
- Singh, S., S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud, Ultrathin multilayer of Fe and Ge: structure and magnetic properties 240 (2005) 251
- Skubiszewska-Zięba, J., see Seledets, O. 240 (2005) 222
- Soares Neto, T.G., A.J.G. Cobo and G.M. Cruz, Evolution of morphologic properties on the preparation of Ir/Al₂O₃ catalysts with high metallic contents 240 (2005) 355
- Sotgiu, G. and L. Schirone, Microstructured silicon surfaces for field emission devices 240 (2005) 424
- Strub, E., see Dittrich, T. 240 (2005) 236
- Sun, C.Q., see Pan, L.K. 240 (2005) 19
- Sun, J.L., see Ma, J.H. 240 (2005) 275
- Sun, M.R., see Liao, J.X. 240 (2005) 71
- Sun, X.W., see Li, J.F. 240 (2005) 155
- Tamer, U., see Abaci, S. 240 (2005) 112
- Tessema, G. and R. Vianden, The study of the influence of uniaxial stress on impurity complexes in silicon 240 (2005) 146
- Tongxiang, L., see Zhiqiang, F. 240 (2005) 349
- Triki, M. and S. Jaziri, Erratum to "Polaronic states in II-VI quantum dot" [Applied Surface Science 238 (2004) 213-217] 240 (2005) 1
- Triki, M. and S. Jaziri, Erratum to "Polaronic states in II-VI quantum dot" 240 (2005) 2

- Uddin, M.N., O.A. Fouad, M. Yamazato and M. Nagano, Deposition and characterization of carbon nitride films from hexamethylene-tetramine/ N_2 by microwave plasma-enhanced chemical vapor deposition 240 (2005) 120
- Vedpathak, M., see Singh, S. 240 (2005) 251
- Vianden, R., see Tessema, G. 240 (2005) 146
- Vijayaraghavan, D., see Ganesh, V. 240 (2005) 286
- Vogel, M., see Dittrich, T. 240 (2005) 236
- Vázquez, A., see Colin L., J.A. 240 (2005) 48
- Wagner, T., see Fu, Q. 240 (2005) 189
- Wan, L.-J., see Yin, X.-L. 240 (2005) 13
- Wang, G.S., see Ma, J.H. 240 (2005) 275
- Wang, H., see Rao, Q. 240 (2005) 28
- Wang, H.M., see Lu, X.D. 240 (2005) 432
- Wang, J., see Guan, F. 240 (2005) 24
- Wang, L.-J. and F. Chau-Nan Hong, Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation 240 (2005) 161
- Way, J.D., see Roa, F. 240 (2005) 85
- Wei, G., H. Zhou, Z. Liu and Z. Li, A simple method for the preparation of ultrahigh sensitivity surface enhanced Raman scattering (SERS) active substrate 240 (2005) 260
- Whang, C.N., see Park, J.Y. 240 (2005) 305
- Whang, K., see Chang, W. 240 (2005) 296
- Wu, C.-F., see Hsieh, C.-T. 240 (2005) 318
- Xia, L.F., see Liao, J.X. 240 (2005) 71
- Xian-Cai, L., see Qing-Feng, H. 240 (2005) 244
- Xian-Dong, L., see Qing-Feng, H. 240 (2005) 244
- Xu, T., see Liao, J.X. 240 (2005) 71
- Xue, Q., see Guan, F. 240 (2005) 24
- Yamazato, M., see Uddin, M.N. 240 (2005) 120
- Yang, C.R., see Liao, J.X. 240 (2005) 71
- Yang, W., see Guan, F. 240 (2005) 24
- Yang, Z.-Y., see Yin, X.-L. 240 (2005) 13
- Ye, M.S., see Liao, L. 240 (2005) 175
- Yildiz, A., see Abaci, S. 240 (2005) 112
- Yin, X.-L., L.-J. Wan, Z.-Y. Yang and J.-Y. Yu, Self-organization of surfactant molecules on solid surface: an STM study of sodium alkyl sulfonates 240 (2005) 13
- Yiyu, Q., see Ruijun, W. 240 (2005) 42
- Yong, S., see Guan, F. 240 (2005) 24
- Yoo, K.H., see Kim, J.H. 240 (2005) 452
- Yoo, K.H., see Lee, D.U. 240 (2005) 375
- Yu, J.-Y., see Yin, X.-L. 240 (2005) 13
- Yu, M.B., see Li, J.F. 240 (2005) 155
- Yun, I., see Moon, T.-H. 240 (2005) 105
- Zambonin, P.G., see Losito, I. 240 (2005) 180
- Zeng, X.T., see Li, J.F. 240 (2005) 155
- Zeng, X.-Y., see Li, S. 240 (2005) 63
- Zhang, X.G., see Shen, C.M. 240 (2005) 34
- Zhao, Q., Y. Liu and E.W. Abel, Surface free energies of electroless Ni-P based composite coatings 240 (2005) 441
- Zhi-Jun, L., see Qing-Feng, H. 240 (2005) 244
- Zhiqiang, F., L. Tongxiang, R. Jean-Charles and T. Chunhe, The stability of SiC coating and SiO_2/SiC multilayer on the surface of graphite for HTGRs at normal service condition 240 (2005) 349
- Zhou, H., see Wei, G. 240 (2005) 260
- Zhou, W., see Qian, H.X. 240 (2005) 140
- Zhou, Z.R., see Lu, X.D. 240 (2005) 432



ELSEVIER

Applied Surface Science 240 (2005) V–XVII

applied
surface science

www.elsevier.com/locate/apsusc

Subject Index

Adsorption

- Variation in surface fractal of graphite due to the adsorption of polyoxyethylene sorbitan monooleate, H. Qing-Feng, L. Xian-Cai, L. Xian-Dong, H. Bai-Xing, L. Zhi-Jun and S. Jian 240 (2005) 244

Alkali metals

- Self-organization of surfactant molecules on solid surface: an STM study of sodium alkyl sulfonates, X.-L. Yin, L.-J. Wan, Z.-Y. Yang and J.-Y. Yu 240 (2005) 13
- Surface structure of low-covered Cs on Si(001)-(2×1) system, J.Y. Park, J.H. Seo, J.Y. Kim, C.N. Whang, S.S. Kim, D.S. Choi and K.H. Chae 240 (2005) 305

Alloys

- Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71

Al-oxide

- Passivation of TiO₂ by ultra-thin Al-oxide, T. Dittrich, H.-J. Muffler, M. Vogel, T. Guminskaya, A. Ogacho, A. Belaidi, E. Strub, W. Bohne, J. Röhrich, O. Hilt and M.C. Lux-Steiner 240 (2005) 236

Alumina

- Evolution of morphologic properties on the preparation of Ir/Al₂O₃ catalysts with high metallic contents, T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz 240 (2005) 355

Aluminium

- Pillar effects in MoS₂ catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48
- Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71

Annealing

- Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation, L.-J. Wang and F. Chau-Nan Hong 240 (2005) 161

Atomic force microscopy

- The effect of air exposure on palladium–copper composite membranes, F. Roa and J.D. Way 240 (2005) 85
- Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam, H.X. Qian, W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim 240 (2005) 140
- Nickel induced lateral crystallization behavior of amorphous silicon films, J.F. Li, X.W. Sun, M.B. Yu, G.J. Qi and X.T. Zeng 240 (2005) 155
- Effects of oxygen flow rate on the properties of HfO₂ layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197
- Structural and energetic heterogeneities of pyrocarbon/silica gel systems and their adsorption properties, O. Seledets, V.M. Gun'ko, J. Skubiszewska-Zięba, R. Lebeda, M. Musiatowicz, P. Podkościelny and A. Dąbrowski 240 (2005) 222
- A simple method for the preparation of ultra-high sensitivity surface enhanced Raman scattering (SERS) active substrate, G. Wei, H. Zhou, Z. Liu and Z. Li 240 (2005) 260

- Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles, C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu 240 (2005) 318
- Eutectic alloy microstructure: atomic force microscopy analysis, C.A.R. Costa, W.W. Batista, C.T. Rios, S. Milenkovic, M.C. Gonçalves and R. Caram 240 (2005) 414
- Auger electron spectroscopy*
- Determination of growth modes via spectroscopy: new simple analytical models, Q. Fu and T. Wagner 240 (2005) 189
- Baron*
- Kinetic interface roughening and magneto resistance of sputter-deposited Fe/Ni₇₅B₂₅ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405
- Biological materials*
- Detergency of stainless steel surface soiled with human brain homogenate: an XPS study, M. Richard, T. Le Mogne, A. Perret-Liaudet, G. Rauwel, J. Criquelion, M.I. De Barros, J.C. Cêtre and J.M. Martin 240 (2005) 204
- Cadmium selenide*
- Influence of different deposition potentials on morphology and structure of CdSe films, C.M. Shen, X.G. Zhang and H.L. Li 240 (2005) 34
- Carbon*
- Effect of carbon content on the microstructure and the cracking susceptibility of Fe-based laser-clad layer, S. Li, Q.-W. Hu, X.-Y. Zeng and S.-Q. Ji 240 (2005) 63
- Deposition and characterization of carbon nitride films from hexamethylenetetramine/N₂ by microwave plasma-enhanced chemical vapor deposition, M.N. Uddin, O.A. Fouad, M. Yamazato and M. Nagano 240 (2005) 120
- Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation, L.-J. Wang and F. Chau-Nan Hong 240 (2005) 161
- Structural and energetic heterogeneities of pyrocarbon/silica gel systems and their adsorption properties, O. Seledets, V.M. Gun'ko, J. Skubiszewska-Zięba, R. Lebeda, M. Musiatowicz, P. Podkościelny and A. Dąbrowski 240 (2005) 222
- Catalysis*
- X-ray photoelectron spectroscopy characterization of composite TiO₂-poly(vinylidene-fluoride) films synthesised for applications in pesticide photocatalytic degradation, I. Losito, A. Amorisco, F. Palmisano and P.G. Zamboni 240 (2005) 180
- Catalysts characterization*
- Evolution of morphologic properties on the preparation of Ir/Al₂O₃ catalysts with high metallic contents, T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz 240 (2005) 355
- Catalysts preparation*
- Evolution of morphologic properties on the preparation of Ir/Al₂O₃ catalysts with high metallic contents, T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz 240 (2005) 355
- Chemical vapour deposition*
- Deposition and characterization of carbon nitride films from hexamethylenetetramine/N₂ by microwave plasma-enhanced chemical vapor deposition, M.N. Uddin, O.A. Fouad, M. Yamazato and M. Nagano 240 (2005) 120
- Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation, L.-J. Wang and F. Chau-Nan Hong 240 (2005) 161
- Chlorine trifluoride*
- A study on the reaction between chlorine trifluoride gas and glass-like carbon, Y. Saito, T. Nishizawa and M. Hamaguchi 240 (2005) 381
- Cobalt*
- Investigation of the inhibiting action of *O*-, *S*- and *N*-dithiocarbamate(1,4,8,11-tetraazacyclotetradecane)cobalt(III) complexes on the corrosion of iron in HClO₄ acid, K. Babić-Samardžija, K.F. Khaled and N. Hackerman 240 (2005) 327

Composites

- Eutectic alloy microstructure: atomic force microscopy analysis, C.A.R. Costa, W.W. Batista, C.T. Rios, S. Milenkovic, M.C. Gonçalves and R. Caram 240 (2005) 414

Copper

- The effect of air exposure on palladium-copper composite membranes, F. Roa and J.D. Way 240 (2005) 85
- Variations of work function and corrosion behaviors of deformed copper surfaces, W. Li and D.Y. Li 240 (2005) 388

Corrosion

- Investigation of the inhibiting action of *O*-, *S*- and *N*-dithiocarbamate(1,4,8,11-tetraazacyclotetradecane)cobalt(III) complexes on the corrosion of iron in HClO_4 acid, K. Babić-Samardžija, K.F. Khaled and N. Hackerman 240 (2005) 327
- Pyridine-pyrazole compound as inhibitor for steel in 1M HCl, M. Bouklah, A. Attayibat, B. Hammouti, A. Ramdani, S. Radi and M. Benkaddour 240 (2005) 341
- Variations of work function and corrosion behaviors of deformed copper surfaces, W. Li and D.Y. Li 240 (2005) 388
- Inhibition of steel pitting corrosion in HCl by some inorganic anions, S.A.M. Refaey 240 (2005) 396

Crystallinity

- Effect of excess Pb on crystallinity and ferroelectric properties of PZT(40/60) films on LaNiO_3 coated Si substrates by MOD technique, J.H. Ma, X.J. Meng, J.L. Sun, T. Lin, F.W. Shi, G.S. Wang and J.H. Chu 240 (2005) 275

Deposit structure

- Microstructure evolution of electroless Ni-B film during its depositing process, Q.-Rao, G. Bi, Q.-Lu, H.-Wang and X.-Fan 240 (2005) 28

Direct decomposition

- Structure and NO reactivity of Zr-deposited Pd surfaces, I. Nakamura, H. Hamada and T. Fujitani 240 (2005) 77

Dissociation

- Structure and NO reactivity of Zr-deposited Pd surfaces, I. Nakamura, H. Hamada and T. Fujitani 240 (2005) 77

Electrical properties

- Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197

Electrodeposition

- Influence of different deposition potentials on morphology and structure of CdSe films, C.M. Shen, X.G. Zhang and H.L. Li 240 (2005) 34

Electroless

- Microstructure evolution of electroless Ni-B film during its depositing process, Q.-Rao, G. Bi, Q.-Lu, H.-Wang and X.-Fan 240 (2005) 28
- Surface free energies of electroless Ni-P based composite coatings, Q. Zhao, Y. Liu and E.W. Abel 240 (2005) 441

Electron microscopy

- Fabrication of patterned gold microstructure by selective electroless plating, F. Guan, M. Chen, W. Yang, J. Wang, S. Yong and Q. Xue 240 (2005) 24
- Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48
- The effect of air exposure on palladium-copper composite membranes, F. Roa and J.D. Way 240 (2005) 85
- Characterization and performances of an Algerian diatomite-based gas chromatography support, O. Hadjadj-Aoul, R. Belabbes, M. Belkadi and M.H. Guermouche 240 (2005) 131
- Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam, H.X. Qian, W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim 240 (2005) 140
- Nickel induced lateral crystallization behavior of amorphous silicon films, J.F. Li, X.W. Sun, M.B. Yu, G.J. Qi and X.T. Zeng 240 (2005) 155
- Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197

- Fine grain growth of nickel electrodeposit: effect of applied magnetic field during deposition, V. Ganesh, D. Vijayaraghavan and V. Lakshminarayanan 240 (2005) 286
- Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles, C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu 240 (2005) 318
- Reciprocating sliding wear behavior of laser-clad small amplitude $\text{Mo}_2\text{Ni}_3\text{Si}/\text{NiSi}$ metal silicide composite coatings, X.D. Lu, H.M. Wang and Z.R. Zhou 240 (2005) 432
- Electron-phonon interaction*
- Polaronic states in II-VI quantum dot, M. Triki and S. Jaziri 240 (2005) 2
- Electronic structure*
- Dependence of the electronic parameters on the $\text{In}_x\text{Ga}_{1-x}\text{As}$ quantum well width in modulation-doped $\text{Al}_y\text{Ga}_{1-y}\text{As}/\text{In}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ strained single quantum wells, D.U. Lee, T.W. Kim and K.H. Yoo 240 (2005) 375
- Electrospark deposition*
- Interface behavior study of WC92-Co8 coating produced by electrospark deposition, W. Ruijun, Q. Yiyu and L. Jun 240 (2005) 42
- Excess Pb*
- Effect of excess Pb on crystallinity and ferroelectric properties of PZT(40/60) films on LaNiO_3 coated Si substrates by MOD technique, J.H. Ma, X.J. Meng, J.L. Sun, T. Lin, F.W. Shi, G.S. Wang and J.H. Chu 240 (2005) 275
- Fe-Al*
- Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214
- Fe-Ni*
- Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214
- Ferroelectric properties*
- Effect of excess Pb on crystallinity and ferroelectric properties of PZT(40/60) films on LaNiO_3 coated Si substrates by MOD technique, J.H. Ma, X.J. Meng, J.L. Sun, T. Lin, F.W. Shi, G.S. Wang and J.H. Chu 240 (2005) 275
- Field emission*
- Microstructured silicon surfaces for field emission devices, G. Sotgiu and L. Schirone 240 (2005) 424
- Fractal dimension of surface*
- Variation in surface fractal of graphite due to the adsorption of polyoxyethylene sorbitan monooleate, H. Qing-Feng, L. Xian-Cai, L. Xian-Dong, H. Bai-Xing, L. Zhi-Jun and S. Jian 240 (2005) 244
- Gallium*
- Interband Stark effects in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{In}_y\text{Al}_{1-y}\text{As}$ coupled step quantum wells, J.H. Kim, T.W. Kim and K.H. Yoo 240 (2005) 452
- Gas sensor*
- Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change, S. Nakata and H. Okunishi 240 (2005) 366
- Glass*
- Fabrication of patterned gold microstructure by selective electroless plating, F. Guan, M. Chen, W. Yang, J. Wang, S. Yong and Q. Xue 240 (2005) 24
- Glass-like carbon*
- A study on the reaction between chlorine trifluoride gas and glass-like carbon, Y. Saito, T. Nishizawa and M. Hamaguchi 240 (2005) 381
- Gold*
- Fabrication of patterned gold microstructure by selective electroless plating, F. Guan, M. Chen, W. Yang, J. Wang, S. Yong and Q. Xue 240 (2005) 24

Graphite

- Variation in surface fractal of graphite due to the adsorption of polyoxyethylene sorbitan monooleate, H. Qing-Feng, L. Xian-Cai, L. Xian-Dong, H. Bai-Xing, L. Zhi-Jun and S. Jian 240 (2005) 244

Hafnium

- Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197

 HfO_2

- Growth and characterization of MOMBE grown HfO_2 , T.-H. Moon, M.-H. Ham, M.-S. Kim, I. Yun and J.-M. Myoung 240 (2005) 105

High-k dielectric materials

- Growth and characterization of MOMBE grown HfO_2 , T.-H. Moon, M.-H. Ham, M.-S. Kim, I. Yun and J.-M. Myoung 240 (2005) 105

High-density data storage

- Microthermal machining using scanning thermal microscopy, T.-H. Fang and W.-J. Chang 240 (2005) 312

HTGRs

- The stability of SiC coating and SiO_2/SiC multilayer on the surface of graphite for HTGRs at normal service condition, F. Zhiqiang, L. Tongxiang, R. Jean-Charles and T. Chunhe 240 (2005) 349

Hydrazine decomposition

- Evolution of morphologic properties on the preparation of $\text{Ir}/\text{Al}_2\text{O}_3$ catalysts with high metallic contents, T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz 240 (2005) 355

Hydrocarbon

- Performance of different crystal structures of PbO_2 on electrochemical degradation of phenol in aqueous solution, S. Abaci, U. Tamer, K. Pekmez and A. Yildiz 240 (2005) 112

- Characterization and performances of an Algerian diatomite-based gas chromatography support, O. Hadjadj-Aoul, R. Belabbes, M. Belkadi and M.H. Guermouche 240 (2005) 131

- Investigation of the inhibiting action of *O*-, *S*- and *N*-dithiocarbamate(1,4,8,11-tetraazacyclotetradecane)cobalt(III) complexes on the corrosion of iron in HClO_4 acid, K. Babić-Samardžija, K.F. Khaled and N. Hackerman 240 (2005) 327

Hydrochloric acid

- Pyridine-pyrazole compound as inhibitor for steel in 1M HCl, M. Bouklah, A. Attayibat, B. Hammouti, A. Ramdani, S. Radi and M. Benkaddour 240 (2005) 341

Hydrogen

- Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48
- The effect of air exposure on palladium-copper composite membranes, F. Roa and J.D. Way 240 (2005) 85

Indium

- Interband Stark effects in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{In}_x\text{Al}_{1-x}\text{As}$ coupled step quantum wells, J.H. Kim, T.W. Kim and K.H. Yoo 240 (2005) 452

Inhibition

- Pyridine-pyrazole compound as inhibitor for steel in 1M HCl, M. Bouklah, A. Attayibat, B. Hammouti, A. Ramdani, S. Radi and M. Benkaddour 240 (2005) 341

Interface behavior

- Interface behavior study of WC92-Co8 coating produced by electrospark deposition, W. Ruijun, Q. Yiyu and L. Jun 240 (2005) 42

Interfaces

- Ultrathin multilayer of Fe and Ge: structure and magnetic properties, S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud 240 (2005) 251
- Kinetic interface roughening and magneto resistance of sputter-deposited $\text{Fe}/\text{Ni}_{75}\text{B}_{25}$

- multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405
- Intermetallic compounds**
- Eutectic alloy microstructure: atomic force microscopy analysis, C.A.R. Costa, W.W. Batista, C.T. Rios, S. Milenkovic, M.C. Gonçalves and R. Caram 240 (2005) 414
- Ion bombardments**
- Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation, L.-J. Wang and F. Chau-Nan Hong 240 (2005) 161
- Ion scattering**
- Determination of growth modes via spectroscopy: new simple analytical models, Q. Fu and T. Wagner 240 (2005) 189
- Surface structure of low-covered Cs on Si(001)-(2×1) system, J.Y. Park, J.H. Seo, J.Y. Kim, C.N. Whang, S.S. Kim, D.S. Choi and K.H. Chae 240 (2005) 305
- Iridium catalysts**
- Evolution of morphologic properties on the preparation of Ir/Al₂O₃ catalysts with high metallic contents, T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz 240 (2005) 355
- Iron**
- Effect of carbon content on the microstructure and the cracking susceptibility of Fe-based laser-clad layer, S. Li, Q.-W. Hu, X.-Y. Zeng and S.-Q. Ji 240 (2005) 63
- Investigation of the inhibiting action of *O*-, *S*- and *N*-dithiocarbamato(1,4,8,11-tetraazacyclotetradecane)cobalt(III) complexes on the corrosion of iron in HClO₄ acid, K. Babić-Samardžija, K.F. Khaled and N. Hackerman 240 (2005) 327
- Kinetic interface roughening and magneto resistance of sputter-deposited Fe/Ni₇₅B₂₅ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405
- Laser interference**
- Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214
- Laser processing**
- Effect of carbon content on the microstructure and the cracking susceptibility of Fe-based laser-clad layer, S. Li, Q.-W. Hu, X.-Y. Zeng and S.-Q. Ji 240 (2005) 63
- Sub-micron scale patterning using femtosecond laser and self-assembled monolayers interaction, W. Chang, M. Choi, J. Kim, S. Cho and K. Whang 240 (2005) 296
- Reciprocating sliding wear behavior of laser-clad small amplitude Mo₂Ni₃Si/NiSi metal silicide composite coatings, X.D. Lu, H.M. Wang and Z.R. Zhou 240 (2005) 432
- Lead**
- Performance of different crystal structures of PbO₂ on electrochemical degradation of phenol in aqueous solution, S. Abaci, U. Tamer, K. Pekmez and A. Yildiz 240 (2005) 112
- Magnetic measurements**
- Kinetic interface roughening and magneto resistance of sputter-deposited Fe/Ni₇₅B₂₅ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405
- Magnetic moment**
- Ultrathin multilayer of Fe and Ge: structure and magnetic properties, S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud 240 (2005) 251
- Manganese**
- Inhibition of steel pitting corrosion in HCl by some inorganic anions, S.A.M. Refaey 240 (2005) 396
- Metalorganic molecular beam epitaxy**
- Growth and characterization of MOMBE grown HfO₂, T.-H. Moon, M.-H. Ham, M.-S. Kim, I. Yun and J.-M. Myoung 240 (2005) 105
- Microstructure**
- Eutectic alloy microstructure: atomic force microscopy analysis, C.A.R. Costa, W.W. Batista, C.T. Rios, S. Milenkovic, M.C. Gonçalves and R. Caram 240 (2005) 414

Microthermal machining

- Microthermal machining using scanning thermal microscopy, T.-H. Fang and W.-J. Chang 240 (2005) 312

Molecular beam epitaxy

- Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197

Molecular sieve

- Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation, L.-J. Wang and F. Chau-Nan Hong 240 (2005) 161

Molybdenum

- Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48
- Reciprocating sliding wear behavior of laser-clad small amplitude $\text{Mo}_2\text{Ni}_3\text{Si}/\text{NiSi}$ metal silicide composite coatings, X.D. Lu, H.M. Wang and Z.R. Zhou 240 (2005) 432

Multilayers

- Ultrathin multilayer of Fe and Ge: structure and magnetic properties, S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud 240 (2005) 251
- Kinetic interface roughening and magneto resistance of sputter-deposited $\text{Fe}/\text{Ni}_{75}\text{B}_{25}$ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405

Nanostructure

- Nanosized titania encapsulated silica particles using an aqueous TiCl_4 solution, H.-H. Choi, J. Park and R.K. Singh 240 (2005) 7
- Synthesis and Raman analysis of 1D-ZnO nanostructure via vapor phase growth, L. Liao, D.H. Liu, J.C. Li, C. Liu, Q. Fu and M.S. Ye 240 (2005) 175
- A simple method for the preparation of ultrahigh sensitivity surface enhanced Raman scattering (SERS) active substrate, G. Wei, H. Zhou, Z. Liu and Z. Li 240 (2005) 260

- Fine grain growth of nickel electrodeposit: effect of applied magnetic field during deposition, V. Ganesh, D. Vijayaraghavan and V. Lakshminarayanan 240 (2005) 286
- Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles, C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu 240 (2005) 318
- Interband Stark effects in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{In}_x\text{Al}_{1-x}\text{As}$ coupled step quantum wells, J.H. Kim, T.W. Kim and K.H. Yoo 240 (2005) 452

Neutron reflectometry

- Ultrathin multilayer of Fe and Ge: structure and magnetic properties, S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud 240 (2005) 251

Ni-B film

- Microstructure evolution of electroless Ni-B film during its depositing process, Q.-Rao, G. Bi, Q.-Lu, H.-Wang and X.-Fan 240 (2005) 28

Nickel

- Nickel induced lateral crystallization behavior of amorphous silicon films, J.F. Li, X.W. Sun, M.B. Yu, G.J. Qi and X.T. Zeng 240 (2005) 155
- Fine grain growth of nickel electrodeposit: effect of applied magnetic field during deposition, V. Ganesh, D. Vijayaraghavan and V. Lakshminarayanan 240 (2005) 286
- Kinetic interface roughening and magneto resistance of sputter-deposited $\text{Fe}/\text{Ni}_{75}\text{B}_{25}$ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405
- Reciprocating sliding wear behavior of laser-clad small amplitude $\text{Mo}_2\text{Ni}_3\text{Si}/\text{NiSi}$ metal silicide composite coatings, X.D. Lu, H.M. Wang and Z.R. Zhou 240 (2005) 432

Ni-Cu-P

- Surface free energies of electroless Ni-P based composite coatings, Q. Zhao, Y. Liu and E.W. Abel 240 (2005) 441

Ni-Cu-P-PTFE

- Surface free energies of electroless Ni-P based composite coatings, Q. Zhao, Y. Liu and E.W. Abel 240 (2005) 441

Ni-P

- Surface free energies of electroless Ni-P based composite coatings, Q. Zhao, Y. Liu and E.W. Abel 240 (2005) 441

Ni-P-PTFE

- Surface free energies of electroless Ni-P based composite coatings, Q. Zhao, Y. Liu and E.W. Abel 240 (2005) 441

Nitrides

- Deposition and characterization of carbon nitride films from hexamethylenetetramine/N₂ by microwave plasma-enhanced chemical vapor deposition, M.N. Uddin, O.A. Fouad, M. Yamazato and M. Nagano 240 (2005) 120

Nitrogen

- Pillar effects in MoS₂ catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48
- Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71
- Structural and energetic heterogeneities of pyrocarbon/silica gel systems and their adsorption properties, O. Seledets, V.M. Gun'ko, J. Skubiszewska-Zięba, R. Leboda, M. Musiatowicz, P. Podkościelny and A. Dąbrowski 240 (2005) 222

Nitrogen monooxide

- Structure and NO reactivity of Zr-deposited Pd surfaces, I. Nakamura, H. Hamada and T. Fujitani 240 (2005) 77

Nonlinear

- Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change, S. Nakata and H. Okunishi 240 (2005) 366

Optical properties

- Interband Stark effects in In_{0.5}Ga_{0.5}As/In_{0.5}Al_{0.5}As coupled step quantum wells, J.H. Kim, T.W. Kim and K.H. Yoo 240 (2005) 452

Oxidation

- Estimating the extent of surface oxidation by measuring the porosity dependent dielectrics of oxygenated porous silicon, L.K. Pan, C.Q. Sun and C.M. Li 240 (2005) 19
- Sub-micron scale patterning using femtosecond laser and self-assembled monolayers interaction, W. Chang, M. Choi, J. Kim, S. Cho and K. Whang 240 (2005) 296

Oxides

- Performance of different crystal structures of PbO₂ on electrochemical degradation of phenol in aqueous solution, S. Abaci, U. Tamer, K. Pekmez and A. Yildiz 240 (2005) 112
- Effects of oxygen flow rate on the properties of HfO₂ layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197

Oxygen desorption

- Structure and NO reactivity of Zr-deposited Pd surfaces, I. Nakamura, H. Hamada and T. Fujitani 240 (2005) 77

Palladium

- The effect of air exposure on palladium-copper composite membranes, F. Roa and J.D. Way 240 (2005) 85

Palladium single-crystal surface

- Structure and NO reactivity of Zr-deposited Pd surfaces, I. Nakamura, H. Hamada and T. Fujitani 240 (2005) 77

Passivation

- Passivation of TiO₂ by ultra-thin Al-oxide, T. Dittich, H.-J. Muffler, M. Vogel, T. Guminskaya, A. Ogacho, A. Belaidi, E. Strub, W. Böhne, J. Röhrich, O. Hilt and M.C. Lux-Steiner 240 (2005) 236

Peritectic

- Effect of carbon content on the microstructure and the cracking susceptibility of Fe-based laser-clad layer, S. Li, Q.-W. Hu, X.-Y. Zeng and S.-Q. Ji 240 (2005) 63

Photochemistry

- X-ray photoelectron spectroscopy characterization of composite TiO_2 -poly(vinylidene-fluoride) films synthesised for applications in pesticide photocatalytic degradation, I. Losito, A. Amorisco, F. Palmisano and P.G. Zambonin 240 (2005) 180
- Sub-micron scale patterning using femtosecond laser and self-assembled monolayers interaction, W. Chang, M. Choi, J. Kim, S. Cho and K. Whang 240 (2005) 296

Photocurrent

- The fabrication and characterization of ZnO UV detector, T.-H. Moon, M.-C. Jeong, W. Lee and J.-M. Myoung 240 (2005) 280

Photoelectron spectroscopy

- Nanosized titania encapsulated silica particles using an aqueous TiCl_4 solution, H.-H. Choi, J. Park and R.K. Singh 240 (2005) 7
- Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71
- X-ray photoelectron spectroscopy characterization of composite TiO_2 -poly(vinylidene-fluoride) films synthesised for applications in pesticide photocatalytic degradation, I. Losito, A. Amorisco, F. Palmisano and P.G. Zambonin 240 (2005) 180
- Determination of growth modes via spectroscopy: new simple analytical models, Q. Fu and T. Wagner 240 (2005) 189
- Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197
- Detergency of stainless steel surface soiled with human brain homogenate: an XPS study, M. Richard, T. Le Mogne, A. Perret-Liaudet, G. Rauwel, J. Criquelion, M.I. De Barros, J.C. Cêtre and J.M. Martin 240 (2005) 204
- Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles, C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu 240 (2005) 318
- Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles, C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu 240 (2005) 318
- A study on the reaction between chlorine trifluoride gas and glass-like carbon, Y. Saito, T. Nishizawa and M. Hamaguchi 240 (2005) 381

Photovoltage

- Passivation of TiO_2 by ultra-thin Al-oxide, T. Dittrich, H.-J. Muffler, M. Vogel, T. Guminskaya, A. Ogacho, A. Belaidi, E. Strub, W. Bohne, J. Röhrich, O. Hilt and M.C. Lux-Steiner 240 (2005) 236

Plasma processing

- Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71
- Deposition and characterization of carbon nitride films from hexamethylenetetramine/ N_2 by microwave plasma-enhanced chemical vapor deposition, M.N. Uddin, O.A. Fouad, M. Yamazato and M. Nagano 240 (2005) 120
- Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation, L.-J. Wang and F. Chau-Nan Hong 240 (2005) 161
- Adhesion strength study between plasma treated polyester fibres and a rubber matrix, H. Krump, M. Šimor, I. Hudec, M. Jaško and A.S. Luyt 240 (2005) 268

Polaronic states

- Polaronic states in II-VI quantum dot, M. Triki and S. Jaziri 240 (2005) 2

Polymers

- X-ray photoelectron spectroscopy characterization of composite TiO_2 -poly(vinylidene-fluoride) films synthesised for applications in pesticide photocatalytic degradation, I. Losito, A. Amorisco, F. Palmisano and P.G. Zambonin 240 (2005) 180
- Adhesion strength study between plasma treated polyester fibres and a rubber matrix, H. Krump, M. Šimor, I. Hudec, M. Jaško and A.S. Luyt 240 (2005) 268
- Microthermal machining using scanning thermal microscopy, T.-H. Fang and W.-J. Chang 240 (2005) 312

Pyridine-pyrazole

- Pyridine-pyrazole compound as inhibitor for steel in 1M HCl, M. Bouklah, A. Attayibat, B. Hammouti, A. Ramdani, S. Radi and M. Benkaddour 240 (2005) 341

PZT thin films

- Effect of excess Pb on crystallinity and ferroelectric properties of PZT(40/60) films on LaNiO₃ coated Si substrates by MOD technique, J.H. Ma, X.J. Meng, J.L. Sun, T. Lin, F.W. Shi, G.S. Wang and J.H. Chu 240 (2005) 275

Quantum effects

- Interband Stark effects in In_xGa_{1-x}As/In_xAl_{1-x}As coupled step quantum wells, J.H. Kim, T.W. Kim and K.H. Yoo 240 (2005) 452

Quantum structures

- Dependence of the electronic parameters on the In_xGa_{1-x}As quantum well width in modulation-doped Al_xGa_{1-x}As/In_xGa_{1-x}As/GaAs strained single quantum wells, D.U. Lee, T.W. Kim and K.H. Yoo 240 (2005) 375

Raman scattering

- Synthesis and Raman analysis of 1D-ZnO nanostructure via vapor phase growth, L. Liao, D.H. Liu, J.C. Li, C. Liu, Q. Fu and M.S. Ye 240 (2005) 175
- A simple method for the preparation of ultra-high sensitivity surface enhanced Raman scattering (SERS) active substrate, G. Wei, H. Zhou, Z. Liu and Z. Li 240 (2005) 260

rf Magnetron sputtering

- The fabrication and characterization of ZnO UV detector, T.-H. Moon, M.-C. Jeong, W. Lee and J.-M. Myoung 240 (2005) 280

Scanning tunneling microscopy

- Self-organization of surfactant molecules on solid surface: an STM study of sodium alkyl sulfonates, X.-L. Yin, L.-J. Wan, Z.-Y. Yang and J.-Y. Yu 240 (2005) 13
- Fine grain growth of nickel electrodeposit: effect of applied magnetic field during deposition, V. Ganesh, D. Vijayaraghavan and V. Lakshminarayanan 240 (2005) 286

Self-assembled quantum dots

- Polaronic states in II-VI quantum dot, M. Triki and S. Jaziri 240 (2005) 2

Semiconductors

- Influence of different deposition potentials on morphology and structure of CdSe films, C.M. Shen, X.G. Zhang and H.L. Li 240 (2005) 34
- Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change, S. Nakata and H. Okunishi 240 (2005) 366

SiC

- The stability of SiC coating and SiO₂/SiC multilayer on the surface of graphite for HTGRs at normal service condition, F. Zhiqiang, L. Tongxiang, R. Jean-Charles and T. Chunhe 240 (2005) 349

Silicides

- Nickel induced lateral crystallization behavior of amorphous silicon films, J.F. Li, X.W. Sun, M.B. Yu, G.J. Qi and X.T. Zeng 240 (2005) 155
- Reciprocating sliding wear behavior of laser-clad small amplitude Mo₂Ni₃Si/NiSi metal silicide composite coatings, X.D. Lu, H.M. Wang and Z.R. Zhou 240 (2005) 432

Silicon

- Estimating the extent of surface oxidation by measuring the porosity dependent dielectrics of oxygenated porous silicon, L.K. Pan, C.Q. Sun and C.M. Li 240 (2005) 19
- Fabrication of patterned gold microstructure by selective electroless plating, F. Guan, M. Chen, W. Yang, J. Wang, S. Yong and Q. Xue 240 (2005) 24
- The study of the influence of uniaxial stress on impurity complexes in silicon, G. Tessema and R. Vianden 240 (2005) 146
- Nickel induced lateral crystallization behavior of amorphous silicon films, J.F. Li, X.W. Sun, M.B. Yu, G.J. Qi and X.T. Zeng 240 (2005) 155
- Surface structure of low-covered Cs on Si(001)-(2×1) system, J.Y. Park, J.H. Seo, J.Y. Kim, C.N. Whang, S.S. Kim, D.S. Choi and K.H. Chae 240 (2005) 305
- Microstructured silicon surfaces for field emission devices, G. Sotgiu and L. Schirone 240 (2005) 424

Silicon oxide

- Nanosized titania encapsulated silica particles using an aqueous TiCl₄ solution, H.-H. Choi, J. Park and R.K. Singh 240 (2005) 7

- Structural and energetic heterogeneities of pyrocarbon/silica gel systems and their adsorption properties, O. Seledets, V.M. Gun'ko, J. Skubiszewska-Zięba, R. Lebeda, M. Musiatowicz, P. Podkościelny and A. Dąbrowski 240 (2005) 222
- Silver**
- A simple method for the preparation of ultra-high sensitivity surface enhanced Raman scattering (SERS) active substrate, G. Wei, H. Zhou, Z. Liu and Z. Li 240 (2005) 260
- SiO₂/SiC multiplayer**
- The stability of SiC coating and SiO₂/SiC multilayer on the surface of graphite for HTGRs at normal service condition, F. Zhiqiang, L. Tongxiang, R. Jean-Charles and T. Chunhe 240 (2005) 349
- Solidification**
- Eutectic alloy microstructure: atomic force microscopy analysis, C.A.R. Costa, W.W. Batista, C.T. Rios, S. Milenkovic, M.C. Gonçalves and R. Caram 240 (2005) 414
- Spacecraft propulsion**
- Evolution of morphologic properties on the preparation of Ir/Al₂O₃ catalysts with high metallic contents, T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz 240 (2005) 355
- Sputter deposition**
- Kinetic interface roughening and magnetoresistance of sputter-deposited Fe/Ni₇₅B₂₅ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405
- Sputtering**
- Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam, H.X. Qian, W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim 240 (2005) 140
- Steel**
- Effect of carbon content on the microstructure and the cracking susceptibility of Fe-based laser-clad layer, S. Li, Q.-W. Hu, X.-Y. Zeng and S.-Q. Ji 240 (2005) 63
- Detergency of stainless steel surface soiled with human brain homogenate: an XPS study, M. Richard, T. Le Mogne, A. Perret-Liaudet, G. Rauwel, J. Criquelion, M.I. De Barros, J.C. Cêtre and J.M. Martin 240 (2005) 204
- Pyridine-pyrazole compound as inhibitor for steel in 1M HCl, M. Bouklah, A. Attayibat, B. Hammouti, A. Ramdani, S. Radi and M. Benkaddour 240 (2005) 341
- Inhibition of steel pitting corrosion in HCl by some inorganic anions, S.A.M. Refaey 240 (2005) 396
- Reciprocating sliding wear behavior of laser-clad small amplitude Mo₂Ni/Si/NiSi metal silicide composite coatings, X.D. Lu, H.M. Wang and Z.R. Zhou 240 (2005) 432
- SThM**
- Microthermal machining using scanning thermal microscopy, T.-H. Fang and W.-J. Chang 240 (2005) 312
- structure**
- Ultrathin multilayer of Fe and Ge: structure and magnetic properties, S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud 240 (2005) 251
- Sulphides**
- Pillar effects in MoS₂ catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48
- Surface diffusion**
- Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam, H.X. Qian, W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim 240 (2005) 140
- Surface free energy**
- Surface free energies of electroless Ni-P based composite coatings, Q. Zhao, Y. Liu and E.W. Abel 240 (2005) 441
- Surface morphology**
- Deposition and characterization of carbon nitride films from hexamethylenetetramine/N₂ by microwave plasma-enhanced chemical vapor deposition, M.N. Uddin, O.A. Fouad, M. Yamazato and M. Nagano 240 (2005) 120

- Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam, H.X. Qian, W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim 240 (2005) 140
- Surface roughness*
- Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles, C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu 240 (2005) 318
- Surface structure*
- Surface structure of low-covered Cs on Si(001)-(2×1) system, J.Y. Park, J.H. Seo, J.Y. Kim, C.N. Whang, S.S. Kim, D.S. Choi and K.H. Chae 240 (2005) 305
- Surfactants*
- Self-organization of surfactant molecules on solid surface: an STM study of sodium alkyl sulfonates, X.-L. Yin, L.-J. Wan, Z.-Y. Yang and J.-Y. Yu 240 (2005) 13
- Temperature change*
- Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change, S. Nakata and H. Okunishi 240 (2005) 366
- Temperature-programmed desorption*
- A study on the reaction between chlorine trifluoride gas and glass-like carbon, Y. Saito, T. Nishizawa and M. Hamaguchi 240 (2005) 381
- Thermal simulation*
- Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214
- Thermodynamics*
- The stability of SiC coating and SiO₂/SiC multilayer on the surface of graphite for HTGRs at normal service condition, F. Zhiqiang, L. Tongxiang, R. Jean-Charles and T. Chunhe 240 (2005) 349
- Thin films*
- Influence of different deposition potentials on morphology and structure of CdSe films, C.M. Shen, X.G. Zhang and H.L. Li 240 (2005) 34
- The effect of air exposure on palladium-copper composite membranes, F. Roa and J.D. Way 240 (2005) 85
- Determination of growth modes via spectroscopy: new simple analytical models, Q. Fu and T. Wagner 240 (2005) 189
- Kinetic interface roughening and magneto resistance of sputter-deposited Fe/Ni₇₅B₂₅ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405
- Ti-Al*
- Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214
- Tin*
- Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam, H.X. Qian, W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim 240 (2005) 140
- Tin dioxide*
- Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change, S. Nakata and H. Okunishi 240 (2005) 366
- Ti-Ni*
- Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214
- Titania*
- Passivation of TiO₂ by ultra-thin Al-oxide, T. Dittrich, H.-J. Muffler, M. Vogel, T. Guminskaya, A. Ogacho, A. Belaidi, E. Strub, W. Bohne, J. Röhrich, O. Hilt and M.C. Lux-Steiner 240 (2005) 236
- Titanium*
- Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71
- Titanium oxide*
- Nanosized titania encapsulated silica particles using an aqueous TiCl₄ solution, H.-H. Choi, J. Park and R.K. Singh 240 (2005) 7

- X-ray photoelectron spectroscopy characterization of composite TiO_2 -poly(vinylidene-fluoride) films synthesised for applications in pesticide photocatalytic degradation, I. Losito, A. Amorisco, F. Palmisano and P.G. Zamboni 240 (2005) 180
- Topography**
- Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214
- Tween 80**
- Variation in surface fractal of graphite due to the adsorption of polyoxyethylene sorbitan monooleate, H. Qing-Feng, L. Xian-Cai, L. Xian-Dong, H. Bai-Xing, L. Zhi-Jun and S. Jian 240 (2005) 244
- Two-dimensional electron gas**
- Dependence of the electronic parameters on the $\text{In}_{1-x}\text{Ga}_x\text{As}$ quantum well width in modulation-doped $\text{Al}_{1-x}\text{Ga}_x\text{As}/\text{In}_{1-x}\text{Ga}_x\text{As}/\text{GaAs}$ strained single quantum wells, D.U. Lee, T.W. Kim and K.H. Yoo 240 (2005) 375
- UV detector**
- The fabrication and characterization of ZnO UV detector, T.-H. Moon, M.-C. Jeong, W. Lee and J.-M. Myoung 240 (2005) 280
- Vanadium**
- Inhibition of steel pitting corrosion in HCl by some inorganic anions, S.A.M. Refaey 240 (2005) 396
- WC92-Co8**
- Interface behavior study of WC92-Co8 coating produced by electrospray deposition, W. Ruijun, Q. Yiyu and L. Jun 240 (2005) 42
- Work function**
- Variations of work function and corrosion behaviors of deformed copper surfaces, W. Li and D.Y. Li 240 (2005) 388
- X-ray diffraction**
- Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48
- Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71
- Deposition and characterization of carbon nitride films from hexamethylenetetramine/ N_2 by microwave plasma-enhanced chemical vapor deposition, M.N. Uddin, O.A. Fouad, M. Yamazato and M. Nagano 240 (2005) 120
- Characterization and performances of an Algerian diatomite-based gas chromatography support, O. Hadjadj-Aoul, R. Belabbes, M. Belkadi and M.H. Guermouche 240 (2005) 131
- Synthesis and Raman analysis of 1D-ZnO nanostructure via vapor phase growth, L. Liao, D.H. Liu, J.C. Li, C. Liu, Q. Fu and M.S. Ye 240 (2005) 175
- Fine grain growth of nickel electrodeposit: effect of applied magnetic field during deposition, V. Ganesh, D. Vijayaraghavan and V. Lakshminarayanan 240 (2005) 286
- X-ray reflectometry**
- Ultrathin multilayer of Fe and Ge: structure and magnetic properties, S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud 240 (2005) 251
- Zinc oxide**
- Synthesis and Raman analysis of 1D-ZnO nanostructure via vapor phase growth, L. Liao, D.H. Liu, J.C. Li, C. Liu, Q. Fu and M.S. Ye 240 (2005) 175
- Zirconium**
- Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48
- Structure and NO reactivity of Zr-deposited Pd surfaces, I. Nakamura, H. Hamada and T. Fujitani 240 (2005) 77
- ZnO homojunction**
- The fabrication and characterization of ZnO UV detector, T.-H. Moon, M.-C. Jeong, W. Lee and J.-M. Myoung 240 (2005) 280

(Continued from outside back cover)

Determination of growth modes via spectroscopy: new simple analytical models Q. Fu and T. Wagner	189
Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy T.-H. Moon and J.-M. Myoung	197
Detergency of stainless steel surface soiled with human brain homogenate: an XPS study M. Richard, Th. Le Mogne, A. Perret-Liaudet, G. Rauwel, J. Criquelion, M.I. De Barros, J.C. Cêtre and J.M. Martin	204
Study of the multilayer metallic films topography modified by laser interference irradiation A. Lasagni and F. Mücklich	214
Structural and energetic heterogeneities of pyrocarbon/silica gel systems and their adsorption properties O. Seledets, V.M. Gun'ko, J. Skubiszewska-Zięba, R. Lebeda, M. Musiatowicz, P. Podkościelny and A. Dąbrowski	222
Passivation of TiO_2 by ultra-thin Al-oxide T. Dittrich, H.-J. Muffler, M. Vogel, T. Guminskaya, A. Ogacho, A. Belaidi, E. Strub, W. Bohne, J. Röhrich, O. Hilt and M.C. Lux-Steiner	236
Variation in surface fractal of graphite due to the adsorption of polyoxyethylene sorbitan monooleate H. Qing-Feng, L. Xian-Cai, L. Xian-Dong, H. Bai-Xing, L. Zhi-Jun and S. Jian	244
Ultrathin multilayer of Fe and Ge: structure and magnetic properties S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud	251
A simple method for the preparation of ultrahigh sensitivity surface enhanced Raman scattering (SERS) active substrate G. Wei, H. Zhou, Z. Liu and Z. Li	260
Adhesion strength study between plasma treated polyester fibres and a rubber matrix H. Krump, M. Šimor, I. Hudec, M. Jaško and A.S. Luyt	268
Effect of excess Pb on crystallinity and ferroelectric properties of PZT(40/60) films on LaNiO_3 coated Si substrates by MOD technique J.H. Ma, X.J. Meng, J.L. Sun, T. Lin, F.W. Shi, G.S. Wang and J.H. Chu	275
The fabrication and characterization of ZnO UV detector T.-H. Moon, M.-C. Jeong, W. Lee and J.-M. Myoung	280
Fine grain growth of nickel electrodeposit: effect of applied magnetic field during deposition V. Ganesh, D. Vijayaraghavan and V. Lakshminarayanan	286
Sub-micron scale patterning using femtosecond laser and self-assembled monolayers interaction W. Chang, M. Choi, J. Kim, S. Cho and K. Whang	296
Surface structure of low-covered Cs on $\text{Si}(001)-(2\times1)$ system J.Y. Park, J.H. Seo, J.Y. Kim, C.N. Whang, S.S. Kim, D.S. Choi and K.H. Chae	305
Microthermal machining using scanning thermal microscopy T.-H. Fang and W.-J. Chang	312
Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu	318
Investigation of the inhibiting action of <i>O</i> -, <i>S</i> - and <i>N</i> -dithiocarbamate(1,4,8,11-tetraazacyclotetradecane)cobalt(III) complexes on the corrosion of iron in HClO_4 acid K. Babić-Samardžija, K.F. Khaled and N. Hackerman	327
Pyridine-pyrazole compound as inhibitor for steel in 1M HCl M. Bouklah, A. Attayibat, B. Hammouti, A. Ramdani, S. Radi and M. Benkaddour	341
The stability of SiC coating and SiO_2/SiC multilayer on the surface of graphite for HTGRs at normal service condition F. Zhiqiang, L. Tongxiang, R. Jean-Charles and T. Chunhe	349

Evolution of morphologic properties on the preparation of Ir/Al ₂ O ₃ catalysts with high metallic contents T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz	355
Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change S. Nakata and H. Okunishi	366
Dependence of the electronic parameters on the In _x Ga _{1-x} As quantum well width in modulation-doped Al _x Ga _{1-x} As/ In _x Ga _{1-x} As/GaAs strained single quantum wells D.U. Lee, T.W. Kim and K.H. Yoo	375
A study on the reaction between chlorine trifluoride gas and glass-like carbon Y. Saito, T. Nishizawa and M. Hamaguchi	381
Variations of work function and corrosion behaviors of deformed copper surfaces W. Li and D.Y. Li	388
Inhibition of steel pitting corrosion in HCl by some inorganic anions S.A.M. Refaey	396
Kinetic interface roughening and magneto resistance of sputter-deposited Fe/Ni ₇₅ B ₂₅ multilayers R.M. Öksüzoglu, G. Miehe and H. Fuess	405
Eutectic alloy microstructure: atomic force microscopy analysis C.A.R. Costa, W.W. Batista, C.T. Rios, S. Milenkovic, M.C. Gonçalves and R. Caram	414
Microstructured silicon surfaces for field emission devices G. Sotgiu and L. Schirone	424
Reciprocating sliding wear behavior of laser-clad small amplitude Mo ₂ Ni ₃ Si/NiSi metal silicide composite coatings X.D. Lu, H.M. Wang and Z.R. Zhou	432
Surface free energies of electroless Ni-P based composite coatings Q. Zhao, Y. Liu and E.W. Abel	441
Interband Stark effects in In _x Ga _{1-x} As/In _y Al _{1-y} As coupled step quantum wells J.H. Kim, T.W. Kim and K.H. Yoo	452
Author Index	I
Subject Index	V



